REC'D 13 MAR 2006

WIPO

TERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

B Barre								
Applicant's or agent's file reference		FOR FURTHER ACTION		See Form PCT/IPEA/416				
BUR920030082		International filing date (day	/month/warl	Priority date (day/month/year)				
International applic	ation No.			Priority date (assyrmania)				
PCT/US03/39026 08 December 2003 (08.12.2003) International Patent Classification (IPC) or national classification and IPC				L				
PC(7): H01L 27/148 and US Cl.: 257/250,270,333,340,347,365,386,406,903								
Applicant CONTROLLAR DISCONDERS MACHINES CORPORATION								
NTERNATIONAL BUSINESS MACHINES CORPORATION								
Exami	This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
2. This R	EPORT consists o	f a total of 🖰 sheets, inclu	ding this cover sh	eet.				
3. This re	This report is also accompanied by ANNEXES, comprising:							
a. [(sent to the applic	ant and to the International	<i>Bureau</i>) a total o	f sheets, as follows:				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4. This r	eport contains indi	cations relating to the follo	wing items:					
\boxtimes	_	Basis of the report						
	Box No. II	Priority						
		Non-establishment of opinion applicability	on with regard to	novelty, inventive step and industrial				
	Box No. IV	Lack of unity of invention						
\boxtimes	Box No. V	Reasoned statement under industrial applicability; cita	Article 35(2) wi tions and explanat	th regard to novelty, inventive step or ions supporting such statement				
	Box No. VI	Certain documents cited						
	Box No. VII	Certain defects in the interr	national application	n				
	Box No. VIII	Certain observations on the						
Date of submission of the demand			Date of completion	on of this report				
08 July 2005 (08.07.2005)			17 October 2005 (17.10.2005)				
Name and mailing address of the IPEA/ US			Authorized officer	/V/c. 1/2/2				
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents			David Nelm	AMMUSI CAILIN				
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	109 (cover sheet)(Ap	ril 2005)						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	
PCT/US03/39026	

		Basis of the report
1. With		ard to the language, this report is based on:
\boxtimes		international application in the language in which it was filed.
	a tr the	anslation of the international application into <u>English</u> , which is the language of a translation furnished for purposes of:
		international search (under Rules 12.3 and 23.1(b))
		publication of the international application (under Rule 12.4(a))
		international preliminary examination (under Rules 55.2(a) and/or 55.3(a))
furni	ished	gard to the elements of the international application, this report is based on (replacement sheets which have been to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" not annexed to this report):
	the	international application as originally filed/furnished
	the	description:
	pa	ges 1-7 as originally filed/furnished
	pa	ges* NONE received by this Authority on ges* NONE received by this Authority on
		e claims: ges 8 and 9 as originally filed/furnished
1	pa	ges* NONE as amended (together with any statement) under Article 19
	na	ges* NONE received by this Authority on
	pa	ges* NONE received by this Authority on
] th	e drawings:
		iges 1/4-4/4 as originally filed/furnished
1	pa	nges* NONE received by this Authority on
1 _	•	
	_] a	sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.	T [he amendments have resulted in the cancellation of:
		the description, pages None
1		the claims, Nos_None the drawings, sheets/figs_None the sequence listing (specify): None and the least specific to the sequence listing (specify): None
1		the drawings, sheets/figs None
		the sequence listing (specify): None.
	[any table(s) related to the sequence listing (specify):None
4.] 1 s	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, ince they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
	1	the description, pages .
		the claims, Nos
		the drawings, sheets/figs
		the sequence listing (specify):
Ì		any table(s) related to the sequence listing (specify):
* If i	tem	4 applies, some or all of those sheets may be marked "superseded."

Form PCT/IPEA/409 (Box No. I) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US03/39026

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
1. Statement								
Novelty (N)	Claims	1-11	YES					
1101013 (11)		NONE						
Inventive Step (IS)	Claims	1-11	YES					
	Claims	NONE	NO					
	61. 1		YES					
Industrial Applicability (IA)		1-11						
	Ciaims	NONE						
2. Citations and Explanations (Rule 70.7) Claims 1-11 meet the criteria set out in PCT Article 33(2)-(4), because the prior art of record does not teach an integrated circuit semiconductor memory device comprises a first dielectric layer covering a first portion of a substrate, the first dielectric layer bein absent from a second portion of the substrate, a second dielectric layer all first portion of the substrate, as condidielectric layer at least partly covering the second portion of the substrate, wherein the property of the second dielectric layer provides a gate capacitance of a gate formed over the second dielectric layer with respect to the substrate that is greater than theoretical capacitance of a gate formed over the first dielectric layer, and in combination with all other features as recited in independent Claim 1. Claims 1-11 have industrial applicability under PCT Article 33(4) because an integrated circuit semiconductor memory device claimed therein can be made or used in the semiconductor industry. NEW CITATIONS NEW CITATIONS NEW CITATIONS								

Form PCT/IPEA/409 (Box No. V) (April 2005)